FILING DATE   Herewith   Unassigned		INFO	RMATION DISCLOSURE			Docket Number (Optional) 14381Z Applicant(s) Hiroshi Hasegawa, et a	a1	Application Number Uns	ssigned	<del></del>
Herewith   Unassigned			(Use several sheets if necessar	אמ			31.	Group Art Ugit	<del></del>	
TEXAMINER   REF   DOCUMENT NUMBER   DATE   NAME   CLASS   SURCLASS   FLINC DATE   FAFFROPRIATE										
S,323,899   6/28/1994   Strom et al.					U.S. PAT	ENT DOCUMENTS				
6,371,907   04/2002   Hasegawa et al.		REF	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
6,036,636   03/2000   Motoki et al.			5,323,899	6/28/1994	Strom e	et al.				
S,531,664   07/1996   Adachi et al.			6,371,907	04/2002	Hasega	wa et al.				
Takamura et al.			6,036,636	03/2000	Motoki	et al.				
FOREIGN PATENT DOCUMENTS    REF			5,531,664	07/1996	Adachi	et al.				
REF   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   Translation   YES   No.	Y C		5,876,326	03/1999	Takam	ura et al.				
REF   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   Translation   YES   No.	7									
REF   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   Translation   YES   No.										
REF   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   Translation   YES   No.										
REF   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   Translation   YES   No.										
REF   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   Translation   YES   No.										
REF   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUBCLASS   Translation   YES   No.					<u> </u>		1		<u> </u>	
S8-172905   11/18/1983   Japan				<del></del>	FOREIG	N PATENT DOCUMENTS	1	<del></del>	Υ	
1-204014 8/16/1989 Japan 5-56486 8/19/1993 Japan 4-81711 3/16/1992 Japan 1-138522 5/31/1989 Japan	10	REF	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS		NO NO
1-204014 8/16/1989 Japan  5-56486 8/19/1993 Japan  4-81711 3/16/1992 Japan  1-138522 5/31/1989 Japan			58-172905	11/18/1983	Japan		1-1-			
4-81711 3/16/1992 Japan 1-138522 5/31/1989 Japan	5		1-204014		Japan					
1-138522 5/31/1989 Japan			5-56486	<del> </del>			<del>                                     </del>			
Eller - Learning - Lea			4-81711	3/16/1992	Japan		1			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	X		1-138522	5/31/1989	Japan		1			
	<u> </u>	<del>- 1</del>			OTHER	DOCUMENTS (Including	Author, Tide,	, Date, Pertinent Po	iges, Etc.)	
		+					<del></del>		<del></del>	
EXAMINER DATE CONSIDERED	EXAMINE	R		0	_	DATE CONSIDERED	1/	3/04/	<del></del>	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw and through citation if not in conformance and considered. Include copy of this form with next communication to applicant.	EXAMINE not conside	R: Initi red. In	al if citation considered, whether ciclude copy of this form with next	or not citation is in communication to	conformaz applicant.	nce with MPEP Section 609; E	raw in thr	ough citation if no	t in conformanc	e and
FORM PTO-A820 Patent and Trademark Office * U.S. DEPARTMENT OF COMM (also form PTO-1449)	Form PTO	-A820	<u> </u>			A/REV04 Pa	atent and Trade	emark Office * U.S. DE	PARTMENT OF CO	MERCE

SHEET 1

OF 2

					Docket Number (Optional) 14381Z		Application Number Unassigned			
•	NFO	RMATION DISCLOSURI (Use several sheets if necessor		•	Applicant(s) Hiroshi Hasega	wa, et al.				
		( One never as assess it secent			Filing Date		Group Art Unit			
					Herewith			assigned		
				U.S. PAT	ENT DOCUMENTS					
XAMINER	REF	DOCUMENT NUMBER	DATE	T	NAME	CLASS	SUBCLASS	FILING		
INITIAL	-		<del> </del>	<del> </del>		<del> </del>	<del>                                     </del>	IF APPRO	PRIATE	
				<del> </del>						
			<del>                                     </del>	-		<del> </del>	-			
				<del> </del>				<del> </del>		
					<del></del>	<del> </del>	+	<del> </del>		
			<del> </del>	>	<del></del>	+	<del> </del>	<del> </del>	-	
		<del></del>			<del></del>					
		<u></u>			<del></del>					
									_	
			<del></del>	FOREIG	N PATENT DOCUMENTS	<del>_</del>		<u> </u>		
	REF	DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUBCLASS	Transi YES	ation NO	
		4-35850	8/25/1992	Japan			11			
		10-274743	10/13/1998	Japan			$\perp \perp \perp$			
$\leq \!\!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	_	DE 197 48 795A1	5/20/1998	Japan		1-1-	11-			
2				<del> </del>		<del> </del>				
				1						
			· · · · · ·	OTHER	OOCUMENTS (Including	Author, Title,	Date, Pertinent Pa	iges, Etc.)		
				1,0			`			
<del></del>	$\dashv$					<del> </del>				
							1 .			
KAMINEI	₹				DATE CONSIDERED	Q	/3/0	N		
AMINE	R: Initi	al if citation considered, whether clude copy of this form with next	or not citation is in	conforman	ce with MPEP Section 609;	Draw line thr	ough eitation if po	in conforms	ance a	

(also form PTO-1449)